

Substitute for form 1449A/PTO

(Use as many sheets as necessary)

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 2 |
|-------|---|----|---|

Complete if Known

| | |
|--------------------|------------------|
| Application Number | PCT/US2004/13735 |
|--------------------|------------------|

| | |
|--------------------|----------------|
| Filing Date | April 24, 2004 |
|--------------------|----------------|

| | |
|----------------------|--------|
| First Named Inventor | Koslov |
|----------------------|--------|

Art Unit

Examiner Name

| | |
|------------------------|----------|
| Attorney Docket Number | PU030141 |
|------------------------|----------|

[illegible][illegible]

09/14/2010

* EXAMINER: Include if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Initial copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the index of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

10/555617
 1999 Rec'd PTO 04 NOV 2005

PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0551-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number PCT/JUS2004/13735
 Filing Date April 24, 2004
 First Named Inventor Koslov
 Art Unit
 Examiner Name
 Attorney Docket Number PU030141

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No.† | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|------------------------|--------------|---|----------------|
| /AF/ | | TARICCO G. ET AL. "Some simple coded-modulation schemes for unequal error protection in satellite communications" SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS PROCEEDINGS, 1996, IEEE 4TH INTERNATIONAL SYMPOSIUM ON MAINZ, GERMANY 22-25 Sept. 1996 New York, NY USA IEEE US 22 Sept. 1996 (pages 1288-1294, XP010208825 ISBN: 0-7803-3567-8 Sections II and III Figure 1 | |
| | | DIVSALAR D. E T AL.: "Multiple turbo does" MILITARY COMMUNICATIONS CONFERENCE, 1995, MILCOM '95 CONFERENCE RECORD IEEE SAN DIEGO, CA USA Nov.5-8, 1995 New York, NY USA IEEE US 11/5/95 pages 279-285 XP010153973 ISBN: 0-7803-2489-7 page 283 left-hand column, paragraph 1, section 1X | |
| | | CALDERBANK, A.R. "Multilevel codes and multistage decoding" IEEE TRANSACTIONS ON COMMUNICATIONS, VOL. 37, NO. 3, March 1989 pages 222-229 XP002304039 Section III-A | |
| | | KANNAN RAMCHANDRAN: "MULTIRESOLUTION BROADCAST FOR DIGITAL HDTV USING JOINT SOURCE/CHANNEL CODING" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 11, no. 1, 1993 pages 6-222 XP000377993 ISBN: 0733-8176 Figure 6b | |
| | | LIM J-H ET AL.: "Labeling and decoding schemes for backward-compatible hierarchical coded modulation" 2000 IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE. CONFERENCE RECORD, VOL. 1, 9/23/2000 PAGES 123-128, XP010532479 page 123, right-hand column, paragraph 2 figure 3a | |
| | | SCHILPP M ET AL. "Multilevel codes for digital HDTV" COMMUNICATION TECHNOLOGY PROCEEDINGS, 1996 ICC T '96 INTERNATIONAL CONFERENCE ON BEIJING, CHINA May 5-7, 1996 New York, NY USA IEEE, US May 5, 1996 pages 771-776, XP010532925 ISBN: 0-7803-2916-3 figure 1b page 773, left-hand column, last paragraph sections II-A, II-B | |
| | | SCHRAMM P.: "Multilevel coding with independent decoding on levels for efficient communication on static and interleaved fading channels" PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1997, WAVES OF THE YEAR 2000, PIMRC '97, The 8th IEEE INTERNATIONAL SYMPOSIUM ON HELSINKI, FINLAND Sept. 1-4, 1997 New York, NY USA, IEEE, US 9/1/96 pages 1196-1200 XP010247636 ISBN: 0-7803-3871-5 figure 4 | |
| ✓ | | PAPKE L ET AL. "Different iterative decoding algorithms for combined concatenated coding and multiresolution modulation" COMMUNICATIONS, 1994, ICC '94 SUPERCOMM'94 CONFERENCE RECORD, 'SERVING HUMANITY THROUGH COMMUNICATIONS.' IEEE INTERNATIONAL CONFERENCE ON NEW ORLEANS, LA USA May 1-5, 1994, NEW YORK, NY USA IEEE May 1, 1994 pages 1249-1254 XP010126691 ISBN: 0-7803-1825-0 section 3.1 | |
| | | | |
| | | | |
| | | | |

Examiner
Signature

/Aristocratis Fotakis/

Date

Considered

09/14/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Applicant's unique citation designation number (optional).² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.